

CLAIMS

What is claimed is:

1. A system comprising:

5 a sensing unit for attaching to a vehicle, the sensing unit having a camera constructed and arranged to view a participant or the vehicle, the camera capturing at least one image; and
processing electronics for storing data representing the captured at least one image or relaying data representing the captured at least one image to a computer or a network.

10 2. The system of claim 1, wherein the processing electronics include digital video memory for storing data representing the captured at least one image.

3. The system of claim 1, wherein the sensing unit further comprises an interface for transmitting data representing the captured image to the computer or the network.

4. The system of claim 1, further comprising an antenna and relay electronics for transferring data representing the captured image to a remote location.

15 5. The system of claim 1, wherein the computer includes a CD or DVD ROM storage device for storing data representing the captured at least one image.

6. The system of claim 1, wherein the processing electronics relay data representing the captured at least one image to the computer or the network in real-time.

20 7. The system of claim 6, wherein the at least one image includes a sequence of images.

8. The system of claim 1, wherein the at least one image includes a sequence of images.

9. A method comprising:

acquiring performance data representing a performance metric of a participant or a vehicle at a first time; and

5 acquiring image data representing an image corresponding to a view of or from the participant or the vehicle at substantially the first time.

10. The method of claim 9, wherein the performance metric corresponds to a rotational characteristic of the participant or the vehicle.

11. The method of claim 9, further comprising transmitting the performance data and the image data to a remote device.

10 12. The method of claim 11, further comprising displaying the performance data and the image data on the remote device.

13. The method of claim 11, further comprising retrieving the image data based on a time associated with the performance data.

15 14. The method of claim 11, further comprising retrieving the performance data based on a time associated with the image data.

15. The method of claim 9, further comprising transmitting the performance data and the video data to an event system.

16. The method of claim 9, wherein the image data includes a plurality of video frames.

20 17. The method of claim 9, further comprising retrieving the performance data or the video data based at least in part on an identifier of the participant or the vehicle or a sensing unit corresponding to the participant or the vehicle.

18. A method comprising:
measuring airtime associated with one or more wheels or shocks of an
automobile; and
communicating the measured airtime to one of a driver of the automobile, a judge
5 or monitor of a race, an event system, or a network.

19. The method of claim 18, wherein monitoring airtime includes assessing a
shock position of at least one of the one or more shocks to determine an off-ground
position of at least one of the one or more wheels.

20. The method of claim 18, wherein monitoring airtime includes assessing sound
10 or acceleration associated with at least one of the one or more wheels.

21. A system comprising:
a base station for displaying at least one performance metric; and
at least one relay unit for receiving data representing the at least one performance
metric from a sensing unit and for transmitting said received data to the base station.

22. The system of claim ²¹20, further comprising at least one camera for capturing
15 at least one image and sending data representing said at least one image to the base
station.

23. The system of claim ²¹20, wherein the at least one relay unit includes at least
two relay units.

24. The system of claim 23, wherein the at least two relay units are located
20 approximate to an event area.

25. The system of claim 24, wherein the event area is a half pipe event area.

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26. The system of claim 20, wherein the base station displays the at least one performance metric on a scoreboard.

27. The system of claim 21, wherein the base station displays the at least one performance metric on a display device electrically coupled to the base station.

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5 28. The system of claim 21, wherein the performance metric is at least one selected from the group of rotation, spin, tilt, leaning, acceleration, speed, edge time, distance, drop distance, airtime, or g-force.

29. The system of claim 21, wherein the performance metric includes a rotation rate or total rotation.

10 30. The system of claim 21, wherein the performance metric includes a rotational component.

31. The system of claim 30, wherein the sensing unit includes an accelerometer.

32. The system of claim 30, wherein the sensing unit includes at least one magnetic field sensing device.

15 33. The system of claim 32, wherein the sensing unit further includes one or more pitch and roll sensors.

34. The system of claim 30, wherein the sensing unit includes one or more magnetic field sensing devices indicating 3-axis of rotation.